

Vasiliy S Krasnikov

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2595084/vasiliy-s-krasnikov-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24
papers

483
citations

11
h-index

21
g-index

26
ext. papers

599
ext. citations

5
avg, IF

4.55
L-index

#	Paper	IF	Citations
24	Dislocation based high-rate plasticity model and its application to plate-impact and ultra short electron irradiation simulations. <i>International Journal of Plasticity</i> , 2011 , 27, 1294-1308	7.6	100
23	Dynamics and kinetics of dislocations in Al and AlCu alloy under dynamic loading. <i>International Journal of Plasticity</i> , 2014 , 55, 94-107	7.6	77
22	Plastic deformation under high-rate loading: The multiscale approach. <i>Physics of the Solid State</i> , 2010 , 52, 1386-1396	0.8	52
21	Plasticity driven growth of nanovoids and strength of aluminum at high rate tension: Molecular dynamics simulations and continuum modeling. <i>International Journal of Plasticity</i> , 2015 , 74, 75-91	7.6	47
20	Influence of local stresses on motion of edge dislocation in aluminum. <i>International Journal of Plasticity</i> , 2018 , 101, 170-187	7.6	42
19	Dislocation dynamics in aluminum containing θ phase: Atomistic simulation and continuum modeling. <i>International Journal of Plasticity</i> , 2019 , 119, 21-42	7.6	29
18	Copper spall fracture under sub-nanosecond electron irradiation. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 1306-1316	4.2	19
17	Prediction of the shear strength of aluminum with θ phase inclusions based on precipitate statistics, dislocation and molecular dynamics. <i>International Journal of Plasticity</i> , 2020 , 128, 102672	7.6	18
16	High-speed collision of copper nanoparticle with aluminum surface: Molecular dynamics simulation. <i>Applied Surface Science</i> , 2016 , 390, 289-302	6.7	14
15	Numerical investigation of the change of dislocation density and microhardness in surface layer of iron targets under the high power ion- and electron-beam treatment. <i>Surface and Coatings Technology</i> , 2012 , 212, 79-87	4.4	13
14	Interaction of dislocation with GP zones or θ phase precipitates in aluminum: Atomistic simulations and dislocation dynamics. <i>International Journal of Plasticity</i> , 2020 , 125, 169-190	7.6	13
13	The unique hybrid precipitate in a peak-aged Al-Cu-Mg-Ag alloy. <i>Scripta Materialia</i> , 2021 , 194, 113669	5.6	11
12	Dislocation nucleation in Al single crystal at shear parallel to (111) plane: Molecular dynamics simulations and nucleation theory with artificial neural networks. <i>International Journal of Plasticity</i> , 2021 , 139, 102953	7.6	8
11	Prediction of shear strength of cluster-strengthened aluminum with multi-scale approach describing transition from cutting to bypass of precipitates by dislocations. <i>International Journal of Plasticity</i> , 2021 , 146, 103095	7.6	7
10	Modeling of plastic localization in aluminum and AlCu alloys under shock loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 354-363	5.3	6
9	Dynamics of growth and collapse of nanopores in copper. <i>International Journal of Solids and Structures</i> , 2020 , 202, 418-433	3.1	5
8	High-speed collision of copper nanoparticles with aluminum surface: Inclined impact, interaction with roughness and multiple impact. <i>Computational Materials Science</i> , 2018 , 142, 108-121	3.2	4

7	Dynamic Fracture of Metals in Solid and Liquid States under Ultra- short Intensive Electron or Laser Irradiation 2014 , 3, 1890-1895		4
6	Wave attenuation in microcrystal copper at irradiation by a powerful electron beam. <i>Current Applied Physics</i> , 2011 , 11, 1315-1318	2.6	3
5	Limit of Ultra-high Strain Rates in Plastic Response of Metals. <i>Structural Integrity</i> , 2019 , 273-278	0.2	3
4	Influence of γ Phase Cutting on Precipitate Hardening of AlCu Alloy during Prolonged Plastic Deformation: Molecular Dynamics and Continuum Modeling. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4906	2.6	3
3	Molecular Dynamics Investigation of Dislocation Slip in Pure Metals and Alloys. <i>Structural Integrity</i> , 2019 , 59-64	0.2	2
2	Prediction of the strength of aged Al-Cu alloys with non-hybrid and hybrid {1 0 0}Al plates. <i>Computational Materials Science</i> , 2022 , 207, 111331	3.2	2
1	Homogeneous nucleation of dislocations in copper: Theory and approximate description based on molecular dynamics and artificial neural networks. <i>Computational Materials Science</i> , 2022 , 206, 111266	3.2	1